

Search Report

STIC Database Tracking Nu 10em

To: CAROLINE ARCOS Location: RND-5B25

Art Unit: 2195

Thursday, February 14, 2008

Case Serial Number: 10/766545

From: LUCY PARK

Location: EIC2100 RND-4B28 / RND-4B31

Phone: (571)272-8667 lucy.park@uspto.gov

Search Notes

Examiner ARCOS:

Here are the results of your Fast & Focused search.

For assistance in retrieving the full text of any patent or article, please send an email to STIC-EIC2100 or call the EIC at 2-4225.

Please don't hesitate to contact me if you have any questions about the search.

Thank you, Lucy

Lucy Park NPL/Patent Searcher EIC 2100





Today's Date 2/4/08

Name Caraline Accos.

STIC FAST & FOCUSED SEARCH EIC 2100 251357

This search cannot be completed unless you:

A. Attach a copy of your EAST strategy. B. Conduct an interview with your searcher. Priority App. Filing Date 1/27/2004

AU/Org. 2195 Examiner# 83	
	Format for Search Results
Bld.&Rm.# 5825 Phone \$571-	270-3151 EMAIL PAPER X
If this is a Bourd of Appeals case, check here] .
Synonyms	***************************************
he loop and consider	int of a threat benedule) be cause another to both modile as 1 thread mcs) to point to 1st instruction of 2nd be register 1st events of intest with (event No
Additional Comments	
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EIC 2100

Questions about the scope or the results of the search? Contact the EIC searcher or contact:

Alyson Dill, EIC 2100 Team Leader 272-3527, RND 4B28

Val	untarv Results Fee	Access to the second

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D	I am	an examiner in Art Unit::		Example: 2133	
D	Relev	ant prior art found, search	results used a	s follows:	
	٥	102 rejection	Publication	number cited or N	PL citation
	٦	103 rejection	Publication	number cited or N	PL citation
	٦	Cited as being of interest.	Publication n	umber cited or N	PL citation
	٦	Helped examiner better un	derstand the in	vention.	
		Helped examiner better un	derstand the st	ate of the art in th	eir technology.
	7	ypes of relevant prior art fo	und:		
		☐ Foreign Patent(s)			
		□ Non-Patent Literat (Journal articles, co		edings, new prod	uct announcements etc.)
D	Relev	ant prior art not found:			
		Results verified the lack of	f relevant prior	art (helped deteri	nine patentability).
		Results were not useful in	determining pa	ntentability or und	erstanding the invention.
Co	mmen	rts;			

Drop off or send completed forms to STIC/EIC2180 RND, 4B28



[File 347] JAPIO Dec 1976-2007/Oct(Updated 080129)

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*File 347: File Histories now available for ordering when searching via DialogLink 5 and Web products, see HELP FILEHIST for more information.

[File 350] Derwent WPIX 1963-2008/UD=200810

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*File 350: Chinese Utility Model registrations in English now available To order File Histories, see HELP FILEHIST for details.

; d s

Set Items Postings Description

SI 3261446 11717965 S THREAD??? OR MULTITHREAD? OR PROCESS OR PROCESSES

S2 42846 313184 S (MODULE? ? OR UNIT? ? OR BLOCK? ? OR SET? ? OR GROUP??? OR

COLLECTION? ?)(3N)INSTRUCTION? ?

\$3 3352 41513 S \$2(3N)(TWO OR SECOND??? OR 2ND OR PAIR OR COUPLE OR TWIN OR DUAL OR ANOTHER OR SEPARATE)

\$4 169 1957 \$ \$3(3N)(CHAIN??? OR BIND??? OR BOUND? OR LOOP??? OR CONNECT??? OR ATTACH???? OR TIE? ?)

\$5 4228 35772 S (EVENT? ? OR ACTION? ? OR OCCURRENCE? ?)(3N)(NOTIFY??? OR NOTIFIE? ? OR NOTIFICATION? ? OR ALERT???)

\$6 0 0 S SI AND \$4 AND \$5

S7 67 1265 S SI AND S4

S8 5 165 S S7 AND THREAD???

S9 0 0 S S4 AND S5

\$10 0 0 S SI AND \$3 AND \$5

S11 1095 17874 S S1 AND S5

S12 36 815 S SI I AND S2 S13 36 815 S S12 NOT S8

S14 17 426 S S13 NOT AD=20040126:20080214/PR

\$15 2963 37409 \$ \$2(3N)(TWO OR SECOND??? OR 2ND OR SEPARATE)

\$16 152 1772 S \$15(3N)(CHAIN??? OR BIND??? OR BOUND? OR LOOP??? OR CONNECT??? OR ATTACH???? OR TIE??)

\$17 54 1012 S \$16 AND \$1

SIS 51 959 S S17 NOT AD=20040126:20080214/PR

\$19 50 944 S \$18 NOT (\$8 OR \$14)

8/3,K/2 (Item 2 from file: 350) Links

Fulltext available through: Order File History

Derwent WPIX

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0010999896 & & Drawing available WPI Acc no: 2001-625035/200172

XRPX Acc No: N2001-465795

Automatic distributed processing system in computer network, appends new instruction generated by server upon processing current instruction from client, with thread identifier

Patent Assignee: TOSHIBA KK (TOKE)

Inventor: MURAMATSU K

Patent Family 2 patents, 2 & countries

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20010027462	Al	20011004	US 2001817259	A	20010327	200172	B
JP 2001273156	A	20011005	JP 200088703	A	20000328	200173	E

Priority Applications (no., kind, date): JP 200088703 A 20000328

Determ Deterile

1 atcht Details								
Patent Number	Kind	Lan	Pgs	Draw	Filing Notes			
US 20010027462	Al	EN	18	11				
JP 2001273156	A	JA	11					

...computer network, appends new instruction generated by server upon processing current instruction from client, with thread identifier Alerting Abstract ... NOVELTY - Server (21) that generates an instruction during processing of an application, appends a thread identifier to the instruction and sends it to client (31). Client creates a thread to process the received instruction in collaboration with a higher-level library of client. New instruction generated upon processing the received instruction, is appended with the thread identifier and sent to server. ... ADVANTAGE - Deadlock caused by distributed processes is avoided by appending new instruction, which is generated by the server during processing of current instruction on the client, with the thread identifier of the current instruction and sending to the server... Title Terms .../Index Terms/Additional Words: PROCESS; THREAD; Original Publication Data by Authority... Original Abstracts: to a client via a network has a relay library which includes an instruction relay thread which appends a thread identifier to an instruction, which is generated during processing of an application, and relays the instruction in collaboration with a higher-level library, and an instruction distribution thread for searching for a thread that processes another instruction from the client. The client has an instruction execution module including an instruction distribution thread for receiving the instruction with the thread identifier, creating a thread that processes the instruction, and passing the instruction to that thread with the thread identifier, and an instruction processing thread for processing the received instruction in collaboration with a higher-level library, and for, when another instruction is generated during the instruction process or the instruction process is complete, sending the other instruction appended with the thread identifier to the instruction distribution thread. ... Claims: automatic distributed processing system comprising: a server machine including; an instruction relay library comprising; a thread management table for storing thread identifiers in correspondence with threads; a server instruction relay thread for, when an instruction is generated during processing of an application, appending a thread identifier managed by said thread management table to the instruction, and sending the instruction to a client machine in collaboration with a higher-level library of said server machine; and a server instruction distribution thread for distributing a thread which processes another instruction from the client machine; and a client machine connected to said server machine via a network, said client machine including; an instruction execution module comprising; a client instruction distribution thread for receiving the instruction sent from said instruction relay thread of said server machine together with the thread identifier, creating a thread that processes the instruction, and passing the received instruction to the created thread together

with the thread identifier; and an instruction processing thread for processing the received instruction in collaboration with a higher-level library of said ellent machine, and for, when another instruction is generated upon processing the received instruction or the processing of the received instruction is complete, sending the other instruction or a processing end reply appended with the thread identifier to said instruction distribution thread of said server machine.

8/3,K/4 (Item 4 from file: 350) Links

Fulltext available through: Order File History

Derwent WPIX

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0007759298 & & Drawing available

WPI Acc no: 1996-384091/199638

Multistream instruction processor able to reduce interlocks - has instruction stream controller with event detector, context backup memory and exchange controller for extracting first instruction from thread and replacing it with second instruction stream

Patent Assignee: MATSUSHITA ELEC IND CO LTD (MATU)

Inventor: HIRATA H: KIMURA K

Patent Famil (1patents, 1 & countries

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Туре
US 5546593	A	19960813	US 199363938	A	19930517	199638	В

Priority Applications (no., kind, date): JP 1992124910 A 19920518

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 5546593	A	EN	24	11	

...controller with event detector, context backup memory and exchange controller for extracting first instruction from thread and replacing it with second instruction stream Alerting Abstract ...thread slots which fetch and decode instructions from an assigneddecoding result of the threaded slot. An execution connection... ...placed into the thread slot which was used by the first... ... USE/ADVANTAGE - effectively than the multithread processor by suppressing Title Terms .../Index Terms/Additional Words: THREAD; Original Publication Data by Authority...Original Abstracts:instruction streams is N or larger than N. Such processor comprises aninstruction preparation unit comprised of N thread slots each of which fetches/decodes instructions from the instruction stream assigned thereto as well as issues decoding result..... execution units each of which executes instructions in accordance with the decoding result of the thread slot; an execution connection unit for replacing a connection with another, the connection between the instruction preparation unit and the functional unit so that the result received from the thread slot will be provided to the execution unit which is ready to execute it; and an instruction stream controller......Claims: is N and larger than N, the processor comprising: an instruction preparation unit comprised of thread slots each of which fetches and decodes instructions from the instruction stream assigned thereto as well as issues a decoding result one at a time, the number of the thread slots being N:a functional unit comprised of instruction execution means each of which executes the instructions in accordance with the decoding result of the thread slot, the number of the instruction execution means being M, the functional unit including at least one delayable execution means; an execution connection unit instruction preparation unit and the functional unit so that the decoding result received from the thread slot will be provided to the instruction execution means which is ready to execute it; and an instruction stream controller comprised of an event detector... ... of the instruction stream had been conducted prior to the execution delay, the context including thread slot context information indicating an operation state of the thread slot assigned to the instruction stream and execution means context information indicating an operation state of the delayable execution means so that the instruction stream may later be returned to a thread slot and the delaying instruction may be immediately re-executed in the delayable execution means; and the exchange controller performing the following functions when the event detector detects...... stream, extracting the context of the first instruction stream, including the first instruction stream's thread slot context information and execution means context information, and temporarily storing it into the context backup memory, putting a second instruction stream into the thread slot that was assigned to the first instruction stream by using the second instruction stream's thread slot context information, andmaking the delayable execution means directly receive and immediately execute the second instruction stream's delaying

14/5/8 (Item 8 from file: 350) Links

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Derwent WPIX

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0009501193 & & Drawing available WPI Acc no: 1999-443742/199937

XRPX Acc No: N1999-330962

Customized software updating method in generic software application

Patent Assignee: ORACLE CORP (ORAC-N)

Inventor: WALLACK P

Patent Family (1 patents, 1 & countries

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 5933645	A	19990803	US 1996618126	A	19960319	199937	В

Priority Applications (no., kind, date): US 1996618126 A 19960319

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 5933645	A	EN	16	9	

Alerting Abstract US A

NOVELTY - An updated version of a software application is executed by receiving an **event notification** message and selecting an independent custom event handler or a default event handler, based on a co-ordination style. An automatic integration of the updated version with computer readable instructions of the independent custom handler is performed during the execution **process**.

DESCRIPTION - The updated version includes a group of executable instruction. The software application generates the event notification message for a predefined significant event in the software application and the default event handler for execution in response to the predefined significant event. A state of variables and parameters for the software application are recorded before and after execution of the custom event handler. A difference between the state of variables and parameters is determined after execution of the custom event handler, recorded in a debug file and displayed on a display screen. INDEPENDENT CLAIMs are also included for the following:

A. customized software upgrading system:

B. computer readable medium

USE - For upgrading customized software, for non-invasive extensions in generic software applications. ADVANTAGE - As the software applications are customized by selecting either independent custom handler or default handler based on received co-ordinate style, the modification of application source code is not necessary, thereby software support is facilitated by isolating vendor supplied application program from user customization, eliminating complicative processes and increasing the overall efficiency of the system.

DESCRIPTION OF DRAWINGS - The figure shows a computer system that accommodates non-invasive extensions to software application.

19/5/7 (Item 7 from file: 350) Links

Fulltext available through: Order File History

Derwent WPIX

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 $0013101464 \;\&\;\&\; Drawing\; available$

WPI Acc no: 2003-182745/200318 XRPX Acc No: N2003-143776

Primary instruction set processing method involves executing secondary instruction set in response to counter invoked by branch instruction of primary instruction set

Patent Assignee: ALTMAN E R (ALTM-I); GLOSSNER C J (GLOS-I); HOKENEK E (HOKE-I); IBM CORP (IBMC); INT BUSINESS MACHINES CORP (IBMC); MELTZER D (MELT-I); MOUDGILL M (MOUD-I) Inventor: ALTMAN E R; GLOSSNER C J; HOKENEK E; MELTZER D; MOUDGILL M; DAVID M; ERDEM H; MAYAN M

Patent Family (5 patents, 23 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20020161987	A	20021031	US 2001845693	A	20010430	200318	В
WO 2002088941	A 1	20021107	WO 2002US 13394	A	20020426	200318	E
EP 1384146	ΑI	20040128	EP 2002729032	A	20020426	200409	E
			WO 2002US13394	A	20020426		
CN 1505781	A	20040616	CN 2002808973	A	20020426	200465	
CN 1243305	C	20060222	CN 2002808973	A	20020426	200664	

Priority Applications (no., kind, date): US 2001845693 A 20010430

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes				
US 20020161987	AI	AI EN 10 4							
WO 2002088941	Al	AI EN							
National Designated States, Original	CA CN DE GB								
Regional Designated States,Original	AT BE CH C	Y DE I	OK E	S FI FR	GB GR IE IT LU MC N	IL PT SE TR			
EP 1384146	Al	EN			PCT Application	WO 2002US13394			
					Based on OPI patent	WO 2002088941			
Regional Designated States,Original	AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR								

Alerting Abstract US Al

NOVELTY - A secondary instruction set is stored in buffers connected to respective execution units (301-305). The secondary instruction set is executed in response to a counter invoked by a branch instruction of a primary instruction set.

DESCRIPTION - An INDEPENDENT CLAIM is included for processor.

USE - For processing primary instruction set.

ADVANTĀGE - By executing the secondary instruction set in response to branch instruction of primary instruction set, the potential instruction pipeline completion rate is achieved without instruction fetch bandwidth limitation. DESCRIPTION OF DRAWINGS - The figure shows the processor.

301-305 Execution units

[File 2] INSPEC 1898-2008/Jan W2

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[File 6] NTIS 1964-2008/Feb W3

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[File 8] Ei Compendex(R) 1884-2008/Jan W4

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[File 23] CSA Technology Research Database 1963-2008/Jan (c) 2008 CSA. All rights reserved.

[File 34] SciSearch(R) Cited Ref Sci 1990-2008/Feb W3

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[File 35] Dissertation Abs Online 1861-2007/Oct

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[File 65] Inside Conferences 1993-2008/Feb 12

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[File 95] TEME-Technology & Management 1989-2008/Feb WI

(c) 2008 FIZ TECHNIK. All rights reserved.

[File 99] Wilson Appl. Sci & Tech Abs 1983-2008/Jan

(c) 2008 The HW Wilson Co. All rights reserved.

[File 144] Pascal 1973-2008/Feb WI

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[File 434] SciSearch(R) Cited Ref Sci 1974-1989/Dec

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W5tYX 03r1

Set Items Postings Description

SI 7842864 13595375 S THREAD??? OR MULTITHREAD? OR PROCESS OR PROCESSES

\$2,34655,110434,S (MODULE?? OR UNIT?? OR BLOCK?? OR SET?? OR GROUP??? OR COLLECTION? 2)(3N)INSTRUCTION? ?

S3 1197 4195 S S2(3N)(TWO OR SECOND??? OR 2ND OR PAIR OR COUPLE OR TWIN OR DUAL OR ANOTHER OR SEPARATE)

0 S S3(3N)(CHAIN??? OR BIND??? OR BOUND? OR LOOP??? OR CONNECT??? OR ATTACH???? OR TIE? ?)

S5 2127 6012 S (EVENT? ? OR ACTION? ? OR OCCURRENCE? ?)(3N)(NOTIFY??? OR NOTIFIE? ? OR NOTIFICATION? ? OR ALERT???)

0 S SI AND S3 AND S5 S6

S7 5149 26589 S SLAND S2

0 S S7 AND S5

S9 4876 13351 S (MODULE? ? OR UNIT? ?)(3N)INSTRUCTION?

S10 50 152 S \$9(5N)(CHAIN??? OR BIND??? OR BOUND? OR LOOP??? OR CONNECT??? OR

ATTACH???? OR TIE? ?) SII 22 S SIO AND S1

S12 4

22 RD (unique items)

S13 0 0 S SIO AND S5 [File 348] EUROPEAN PATENTS 1978-2007/200806

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*File 348: For IPCR/8 information, see HELP NEWSIPCR. To order File Histories, see HELP FILEHIST for details.

File 349 PCT FULLTEXT 1979-2008/UB=20080131UT=20080124

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*File 349: For IPCR/8 information, see HELP NEWSIPCR, To order File Histories, see HELP FILEHIST for details

:ds

Set Items Postings Description

SI 1506766 19955242 S THREAD??? OR MULTITHREAD? OR PROCESS OR PROCESSES

\$2 49064 602620 S (MODULE? ? OR UNIT? ? OR BLOCK? ? OR SET? ? OR GROUP??? OR COLLECTION? 2)(3N)INSTRUCTION? 2

S3 4155 49523 S S2(3N)(TWO OR SECOND??? OR 2ND OR PAIR OR COUPLE OR TWIN OR DUAL OR ANOTHER OR SEPARATE)

139 1180 S S3(3N)(CHAIN??? OR BIND??? OR BOUND? OR LOOP??? OR CONNECT??? OR ATTACH???? OR TIE? ?)

55 9442 81918 S (EVENT? ? OR ACTION? ? OR OCCURRENCE? ?)(3N)(NOTIFY??? OR NOTIFIE? ?

OR NOTIFICATION? ? OR ALERT???) S6 0 0 S S1(100N)S4(100N)S5

S7 5 63 S S1(50N)S4

27 S S1(100N)S3(100N)S5

SS 0 S S8 NOT S7

S10 157 2297 S \$1(100N)\$3(15N)(CHAIN??? OR BIND??? OR BOUND? OR LOOP??? OR

CONNECT??? OR ATTACH???? OR TIE? ?) Λ 0 S SIO(100N)S5

S12 14 436 S S10(100N)EVENT?

SI3 105 S S12 NOT S7

S14 70 S S13 NOT AD=20040126:20080214/PR

S15 21874 234926 S (MODULE? ? OR UNIT? ?)(3N)INSTRUCTION? ?

S16 861 7660 S S15(5N)(CHAIN??? OR BIND??? OR BOUND? OR LOOP??? OR CONNECT??? OR ATTACH???? OR TIE? ?)

15 222 S S16(100N)(THREAD??? OR MULTITHREAD???) S17

S18 15 222 S S17 NOT (S7 OR S13)

S19 10 112 S S18 NOT AD=20040126:20080214/P

at-

1413K/4 (Item 4 from file: 348) Links

Fulltext available through: Order File History

EUROPEAN PATENTS

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00830

System and method for simulation of computer systems combining hardware and software interaction Anordnung und Verfahren zur Simulation von Rechnersystemen mit kombinierter Hardware- und Software-Interaktion

Systeme et methode pour la simulation de systemes d'ordinateur combinant une interaction entre materiel et logiciel

Patent Assignee:

C. Eagle Design Automation, Inc.; (2230010)

12415 S.W. Millikan Way; Beaverton, Oregon 97005; (US)

(applicant designated states: AT;BE;CH;DE;DK;ES;FI;FR;GB;GR;IE;IT;LI;LU;MC;NL;PT;SE)

Inventor:

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Legal Representative:

E. Grunecker, Kinkeldey, Stockmair & Schwanhausser Anwaltssozietat (100721)

Pub. Date

Maximilianstrasse 58; 80538 Munchen; (DE)

	Country	Number	Kind	Date	
Patent	EP	777180	A2	19970604	(Basic)
	EP	777180	A3	19990210	
Application	EP	96119099		19961128	
Priorities	US	566401		19951201	

Designated States:

Publication: English

AT: BE: CH: DE: DK: ES: FI: FR: GB: GR:

1E; IT; LI; LU; MC; NL; PT; SE;

International Patent Class (V7): GO6F-011/26; ;

riocedulai. English			
Application: English			
Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB97	3451
SPEC A	(English)	EPAB97	8800
Total Word Count (Document A) 12251			
Total Word Count (Document B) 0			
Total Word Count (All Documents) 12251			

Kind

Text

Claims: ...to control communications between said first processor emulator and said hardware simulator only on said event when the target program for the first target microprocessor requires intendion ...to control communications between said second processor emulator and said hardware simulator only on said event when the target program for the second target microprocessor requires interaction with the target circuitry.....and second processor emulators are each coupled to said hardware simulator by a computer network connection, said communications interface controlling communications over said network connections.

- 19. The system of claim 16....coupled to said first and second processor emulators, respectively, said first exception detector detecting said event when the target program for the first target microprocessor requires interaction with the target circuitry, and said second exception detector detecting said event when the target program for the second target microprocessor requires interaction with the target circuitry....detector temporarily halts execution of said first set of computer instructions while said hardware simulator processes said event when the target program for the first target microprocessor requires interaction with the target circuitry, and said second exception detector temporarily halts execution of said second set of computer instructions while said hardware simulator processes said event when the target program for the second target microprocessor requires interaction with the target circuitry.
- 21. The system of claim 16 wherein said event when the target program for the first target microprocessor requires interaction with the target circuitry... ...first processor emulator to said hardware simulator.
- 22. The system of claim 16 wherein said event when the target program for the second target microprocessor requires interaction with the target circuitry...

14/3K/6 (Item 1 from file: 349) Links

Fulltext available through: Order File History

PCT FULLTEXT

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METHOD AND APPARATUS FOR REAL-TIME MULTITHREADING

PROCEDE ET DISPOSITIF DE TRAITEMENT MULTIPLE EN TEMPS REEL

Patent Applicant/Patent Assignee:

F. UNIVERSITY OF DELAWARE; Office of the Vice Provost for Research, 210 Hullihen Hall, Newark, DE

US; US(Residence); US(Nationality) (For all designated states except: US)

G. GAO Guang R; 6 Haywood Court, Newark, DE 19711

US; US(Residence); CA(Nationality)

H. THEOBALD Kevin B; 1492 Northeast Alex Way, Apartment 316, Hillsboro, OR 97124 US: US(Residence); US(Nationality)

Patent Applicant/Inventor:

I. GAO Guang R

6 Haywood Court, Newark, DE 19711; US; US(Residence); CA(Nationality);

J. THEOBALD Kevin B

1492 Northeast Alex Way, Apartment 316, Hillsboro, OR 97124; US; US(Residence); US(Nationality);

Legal Representative:

K. OLSEN James M(agent)

Connolly Boye Lodge & Hutz LLP, P.O. Box 2207, Wilmington, DE 19899-2207; US:

	Country	Number	Kind	Date
Patent	WO	2003102758	Al	20031211
Application	WO	2003US17223		20030530
Priorities	US	2002384495		20020531

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL;

PT: RO: SE: SI: SK: TR:

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;

ML; MR; NE; SN; TD; TG;

IAN GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;

UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English Filing Language: English Fulltext word count: 9863

Detailed Description:

... wireless communications equipment, personal digital assistants (PDAs), network switches and routers, etc.

By keeping the multithreading unit separate from the instruction processor in the present invention, a small amount of extra time is spent in their interaction, compared to a design in which multithreading capability is integral to the processor.

This trade-off is acceptable as it leads to... ...the advantage of leveraging off-the-shelf processor design and technology.

Because the model of multithreading in the present invention differs from

4

other models of parallel synchronization, it involves distinct programming.....described herein, the invention comprises a computer-implemented apparatus comprising: one or more multithreading nodes connected by an interconnection network, each multithreading node comprising: an execution unit (EU) for executing active......fibers and procedures, and handling remote accesses; two queues, the ready queue (RQ) and the event queue (EQ),

through which the EU and SU communicate, the ready queue providing information received.....synchronization unit to the atleast one computer processor of the execution unit, and the event queue providing information received -from the at least one computer processor of the execution unit...

19/3K/2 (Item 2 from file: 348) Links

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EUROPEAN PATENTS

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01059137

METHOD AND APPARATUS FOR SELECTING THREAD SWITCH EVENTS IN A MULTITHREADED PROCESSOR

VERFAHREN UND GERAET ZUM WAEHLEN VON FADENWECHSELEREIGNISSEN IN EINEM MEHRFADENPROZESSOR

PROCEDE ET APPAREIL DE SELECTION D'EVENEMENTS DE COMMUTATION D'UNITES D'EXECUTION DANS UN PROCESSEUR À UNITES D'EXECUTION MULTIPLES

Patent Assignee:

L. International Business Machines Corporation; (200128) New Orchard Road; Armonk, NY 10504; (US)

(Proprietor designated states: all)

Inventor:

M. BORKENHAGEN, John, Michael

1359 Westhill Drive S.W.; Rochester, MN 55902; (US)

N. EICKEMEYER, Richard, James

5277 Howard Street N.W.; Rochester, MN 55901; (US)

0. FLYNN, William, Thomas

2516 14th Avenue S.W.; Rochester, MN 55902; (US)

P. LEVENSTEIN, Sheldon, Bernard

1608 7th Street N.E.; Rochester, MN 55906; (US)

Q. WOTTRENG, Andrew, Henry

4224 Manor View Drive N.W.; Rochester, MN 55901; (US)

Legal Representative:

R. Burt, Roger James, Dr. et al (52152)

IBM United Kingdom Limited Intellectual Property Department Hursley Park; Winchester Hampshire S021 2JN: (GB)

	Country	Number	Kind	Date	
Patent	EP	1029269	Al	20000823	(Basic)
	EP	1029269	BI	20030924	
	WO	99021081		19990429	
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CLAIMS B	(English)	200339	529
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Specification: ...suspended in response to, for example, the occurrence of L1 D-cache miss, a second thread would be able to access the L1 D-cache 120 for data present therein. If the second thread also results in L1 D-cache miss, another data request will be issued and thus.....Cache. The storage control unit 200, the execution units 260, 270, and 280 and the instruction unit 220 are all operationally connected to the thread switch logic 400 which determines which thread to execute.

As illustrated in Figure 2, a bus 205 is provided between the storage...